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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule
REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

Date of Receipt:

Document
Control Number:

Docket Number:

EPA Form 7710-52

PART	Α (GENERAL REPORTING INFORMATION
1.01	Th	is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	COL	impleted in response to the Federal Register Notice of $[1]2$ $[2]2$ $[8]9$ mo. day year
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No
	b.	If a chemical substance CAS No. is not provided in the Federal Register, list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the Federal Register.
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_[]_]-[_]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI		ufacturer
[_]		orter 2
		cessor(3
		,
		manufacturer reporting for customer who is a processor
	•••	processor reporting for customer who is a processor

'1.03 ¹ <u>CBI</u>		es the substance you are reporting on have an "x/p" designation associated with it the above-listed Federal Register Notice?
[_]	Yes No	
1.04 <u>CBI</u>	a.	Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response. Yes
	b.	Check the appropriate box below: [] You have chosen to notify your customers of their reporting obligations Provide the trade name(s)
		[_] You have chosen to report for your customers [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 CBI [_]	Trac Is t	you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name. Be name
<u> </u>	"I h ente	ification The person who is responsible for the completion of this form must the certification statement below: ereby certify that, to the best of my knowledge and belief, all information red on this form is complete and accurate. SCHLAMEUS NAME SIGNATURE DATE SIGNED ANAGEN (512) Lole1 - 8271 TITLE
<u>_</u>] н	ark	(X) this box if you attach a continuation sheet.

TITLE (· 1				
are required to complete section 1 of this CAIR form and provide any information nov required but not previously submission. "I hereby certify that, to the best of my knowledge and belief, all required information which I have not included in this CAIR Reporting Form has been submit to EPA within the past 3 years and is current, accurate, and complete for the tim period specified in the rule." NA		with the required informati within the past 3 years, an	on on a CAIR Re	eporting Form for the ion is current, accu	e listed substance urate, and complete
information which I have not included in this CAIR Reporting Form has been submit to EPA within the past 3 years and is current, accurate, and complete for the tim period specified in the rule." NA	[_]	are required to complete se now required but not previo	ction 1 of this	CAIR form and provide a copy of	ide any information
TITLE TELEPHONE NO. DATE SIGNE SUBMISSION		information which I have no to EPA within the past 3 ye	et included in sears and is curr	this CAIR Reporting	Form has been submitt
TITLE TELEPHONE NO. DATE SIGNE SUBMISSION		NA \			
SUBHISSION 1.08 CBI Certification If you have asserted any CBI claims in this report you must certify that the following statements truthfully and accurately apply to all of those confidentiality claims which you have asserted. CBI "Hy company has taken measures to protect the confidentiality of the information and it will continue to take these measures; the information is not, and has not been, reasonably ascertainable by other persons (other than government bodies) by using legitimate means (other than discovery based on a showing of special need a judicial or quasi-judicial proceeding) without my company's consent; the information is not publicly available elsewhere; and disclosure of the information would cause substantial harm to my company's competitive position." NAME SIGNATURE DATE SIGN TITLE TELEPHONE NO. Mark (X) this box if you attach a continuation sheet.		NAME		SIGNATURE	DATE SIGNED
1.08 CBI Certification If you have asserted any CBI claims in this report you must certify that the following statements truthfully and accurately apply to all of those confidentiality claims which you have asserted. [BI		TITLE	()	TELEPHONE NO.	DATE OF PREVIO
TITLE TELEPHONE NO. [Mark (X) this box if you attach a continuation sheet.		a judicial or quasi-judicia	al proceeding)	without my company's	ng of special need in consent; the
[_] Mark (X) this box if you attach a continuation sheet.		a judicial or quasi-judicia information is not publicly would cause substantial has	al proceeding) y available els	without my company's ewhere; and disclosu y's competitive posi	ng of special need in consent; the re of the information tion."
		a judicial or quasi-judicia information is not publicly would cause substantial has	al proceeding) y available els	without my company's ewhere; and disclosu y's competitive posi	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicial information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicial information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicial information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicial information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicial information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicia information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicia information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
5		a judicial or quasi-judicia information is not publicly would cause substantial has NAME	al proceeding) y available els	without my company's ewhere; and disclosury's competitive positive SIGNATURE	ng of special need in consent; the are of the information tion."
		a judicial or quasi-judicial information is not publicly would cause substantial has NAME TITLE	al proceeding) y available els rm to my compan	without my company's ewhere; and disclosury's competitive positive	ng of special need in consent; the are of the information

PART	B CORPORATE DATA
1.09	Facility Identification
CBI	Name [G]O]O]D]YEAR]OOMMEROOOLOILOITIIII
[_]	Address [5]9]2]2]]B]U]S]] W]E]5]3]]P]A[R]K]]D[R]1]V[E]]
	[<u>]A</u>] <u>N</u>] <u> A</u>] <u>N</u>] <u> </u> [<u> </u>] <u> </u>] <u> </u>]]]]]]]]]]]]]]]]]]]
	[7 X [7 8 2]/ 8 []]] State Zip
	Dun & Bradstreet Number $[7]4]-[9]99]9]-[0]413[5]$
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	0ther SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [T]h]e]]G]o]o]d]y]e]a]r]]T]i]r]e]&]R]u]b]b]e]r]]C]
[_]	Address [1]1]4]4]] E]a]s]t] M]a]r]k]e]t] Street
	(A)k]r]o]n]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	Dun & Bradstreet Number
	Employer ID Number

1.1,i	Parent Company Identification	·
<u>CBI</u>	Name [T]h e] G o o d y e a r T i r e & R u b b e Address 1 1 4 4	
	(A k F 0 n - - - - - - - - - - - - - - - - - -	
	(<u>0</u> <u>H</u> (<u>4</u> <u>4</u> <u>3</u> <u>1</u>] <u>6</u> (<u>0</u>	1 <u>0</u> 1 <u>0</u> 1 <u>1</u> 1
	Dun & Bradstreet Number	912141
1.12	Technical Contact	•
CBI	Name $[\underline{H}]_{\underline{A}}_{\underline$	
[_]	Title [M]A]NACKIR]]]]]]]]]]]]]]]]]]]	_1_1_1
	Address $[5]922]$ $B[v]5][N]E[S]S[D]A[R]K[D]R[L]$ Street	<u>v</u> <u>E</u> _
	(S)A)N]_ A)N T O N T O - - - - - - - - - - - - - - - - - -	111
	$[\overline{7}]\overline{X}$ $[\overline{7}]\overline{8}]\overline{2}\overline{7}\overline{8}$ $[\overline{7}]\overline{8}$ $[\overline{7}]\overline{8}$ $[\overline{7}]\overline{8}$ $[\overline{7}]\overline{8}$ $[\overline{7}]\overline{8}$	_1_1_1
	Telephone Number	
1.13	This reporting year is from	
s.		
	•	

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:				
	(NA) \				
CBI	Name of Seller [_]]_]_]_]_]_]_]_]_]_]_]_]_]				
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]				
	[]]]]]]]]]]]] [] [] [] [
	[_]_] [_]_][_]_]_] State				
	Employer ID Number				
	Date of Sale [_]_] [_]_] [_]_] [_]_] [_]_]				
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]				
	Telephone Number				
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:				
<u>CBI</u>	Name of Buyer [_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]				
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]				
	(_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1				
	[_]_] [_]_]_]_]_]_][_]_]_]_]				
	Employer ID Number				
	Date of Purchase				
	Contact Person [] [] [] [] [] [] [] [] [] [
	Telephone Number				
[_]	Mark (X) this box if you attach a continuation sheet.				

1 1 1

1.15	For, each classification listed below, state the quantity of the listed was manufactured, imported, or processed at your facility during the re	substance tha
<u>BI</u>	Classification	nantity (kg/yr
	Manufactured	0.0
	Imported	
	Processed (include quantity repackaged)	
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	NA
	For on-site use or processing	
	For direct commercial distribution (including export)	
	In storage at the end of the reporting year	
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	14.1
	Processed as a reactant (chemical producer)	
	Processed as a formulation component (mixture producer)	
	Processed as an article component (article producer)	
	Repackaged (including export)	
	In storage at the end of the reporting year	
	·	

: 1

1.17 CBI	Mixture If the listed so or a component of a mixture chemical. (If the mixture each component chemical for	ubstance on which you are rece, provide the following info composition is variable, re all formulations.)	quired to report ormation for eac port an average	is a mixture h component percentage of
[_]	Component Name	Supplier Name	Compositi (specify	rage % on by Weight precision, 45% ± 0.5%)
	TDI Prepolymer	ARNCO	40 ± 5.0	•
	Petroleum Hydrocarbon	ARNCO	55 ± 5.0	 o
	Toluene Diisocyanate	ARNCO	4.0 ± 0	
			Total	100%

[] Mark (X) this box if you attach a continuation sheet.	

, ' 2.04,	State the quantity of the listed substance that your facility manu or processed during the 3 corporate fiscal years preceding the rep descending order.	factured, impo orting year in	rted,
CBI			
[_]	Year ending	(<u>1)2</u>) (81 <u>7</u> 1 Year
	Quantity manufactured	6.0	kg
	Quantity imported	6.0	kg
	Quantity processed	136.8	kg
	Year ending	[1]2] [8 <u>6</u> Year
	Quantity manufactured		. * kg
	Quantity imported		kg
	Quantity processed		kg
	Year ending	[<u>1]2</u>] [8 <u>5</u> Year
	Quantity manufactured	00	kg
	Quantity imported	00	— kg
	Quantity processed	·	kg
2.05 <u>CBI</u> []	Specify the manner in which you manufactured the listed substance appropriate process types. NA Continuous process		
	Semicontinuous process		2
	Batch process	• • • • • • • • • • • • •	
[_]	Mark (X) this box if you attach a continuation sheet.		

2.06 · CBI	Specify the manner in w appropriate process typ	hich you processed thes.	e listed substance.	Circle all
[_]	Continuous process	••••		1
	Semicontinuous process			
	Batch process			
2.07	State your facility's n substance. (If you are	ame-plate capacity fo	r manufacturing or s	processing the lines
CBI	substance. (If you are question.)	a batch manufacturer	or batch processor,	do not answer this
[_]	Manufacturing capacity	NA	••••••	
	•			kg/yr
	capacity	• • • • • • • • • • • • • • • • • • • •		kg/yr
CBI	If you intend to increamanufactured, imported, year, estimate the increvolume.			
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	ProcessingQuantity (kg)
	Amount of increase		•	147
	Amount of decrease			
		.•		
	•			:
	•			
	Mark (X) this box if you	attach a continuari	on sheet	

· 2.09 ·	For the three largest volume manufacturing or processing listed substance, specify the number of days you manufact substance during the reporting year. Also specify the av day each process type was operated. (If only one or two list those.)	ured or processed erage number of h	the listed
CBI			
[_]		Days/Year	Average Hours/Day
	Process Type #1 (The process type involving the largest quantity of the listed substance.)		
	Manufactured	<u>33</u>	<u> </u>
	Processed	• • • • • • • • • • • • • • • • • • • •	
	Process Type #2 (The process type involving the 2nd large quantity of the listed substance.)	st	•
	Manufactured		
	Processed	<u>NA</u>	
	Process Type #3 (The process type involving the 3rd large quantity of the listed substance.)	est	
	Manufactured	· · · · ·	
	Processed	<u>NA</u>	
2.10 <u>CBI</u> []	State the maximum daily inventory and average monthly inventance that was stored on-site during the reporting year chemical. Maximum daily inventory Average monthly inventory	rentory of the interest in the form	kg kg
[_]	Hark (X) this box if you attach a continuation sheet.		

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity	Concentration (%) (specify ± % precision)	Source of I products, (products, (Impurities
				-
-				
Use the following B = Byproduc C = Coproduc I = Impurity	t	te byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	te byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	te byproduct, copro	oduct, or impurit	y:

[] Mark (X) this box if you attach a continuation sheet.

CBI	Existing Product Types - imported, or processed to the quantity of listed stotal volume of listed squantity of listed substilisted under column b., the instructions for furnishments of the structions of the instructions for furnishments.	sing the listed su substance you use f substance used duri ance used captivel and the types of e	bstance during the re or each product type ng the reporting year y on-site as a percen nd-users for each pro	porting year. List as a percentage of the . Also list the
	a.	b.	c.	d.
		% of Quantity		- .
		Manufactured, Imported, or	% of Quantity	
	Product Types ¹	Processed	Used Captively On-Site	Type of End-Users ²
	X	400		Type or Bitt-osers
		100	100	I, CM
		-		
				•
				- '
	1 Use the following codes A = Solvent B = Synthetic reactant C = Catalyst/Initiator/ Sensitizer D = Inhibitor/Stabilizer Antioxidant E = Analytical reagent F = Chelator/Coagulant/ G = Cleanser/Detergent/ H = Lubricant/Friction agent I = Surfactant/Emulsifi J = Flame retardant K = Coating/Binder/Adhe 2 Use the following codes I = Industrial CM = Commercial	Accelerator/ er/Scavenger/ Sequestrant Degreaser modifier/Antivear er esive and additives to designate the CS = Cons	L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ac R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and U = Rheological modi X = Other (specify). type of end-users:	on/Plating chemicals dditives cals and additives chemicals ol chemicals ds and additives additives
		·		

substance used during the reporting year. CBI used captively on-site as a percentage of types of end-users for each product type. [] explanation and an example.)		et column b., and the octions for further
a. b.	c.	d.
% of Quantity Manufactured, Imported, or Product Types Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
X100	100	I; CM
Use the following codes to designate product A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/	L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and U = Rheological modi S X = Other (specify) type of end-users:	on/Plating chemicals dditives cals and additives chemicals chemicals ds and additives additives additives afier Article-Plat proof tire
[_] Mark (X) this box if you attach a continua	ation short	

2.14 CBI	Final Product Co manufactured, impor substance other than	ted, or processed at	table for each type of your facility that cont	final product tains the listed
[_]	a.	b.	c. Average % Composition of	d.
	Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users ³
	<u> </u>	н	< 0.01	I, CM
	•			
				•
	A = Solvent B = Synthetic react C = Catalyst/Initia	ator/Accelerator/ ilizer/Scavenger/ gent lant/Sequestrant gent/Degreaser tion modifier/Antiwear lsifier /Adhesive and additive	L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and V = Rheological modi es X = Other (specify)	on/Plating chemicals dditives cals and additives chemicals d chemicals ds and additives additives additives fier Article-Plat proof tir
	A = Gas B = Liquid C = Aqueous solutio D = Paste E = Slurry F1 = Povder	F2 = Cry F3 = Gra on F4 = Oth G = Gel	ner solid l ner (specify) <u>Article</u>	cal form:
	I = Industrial CM = Commercial	CS = Cor		

2.15 CBI	liste	le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments o	f the
[_]	Truck	· · · · · · · · · · · · · · · · · · ·		(1)
	Railo	ear		(2)
	Barge	e, Vessel		_
	Pipel	line	• • • • • • • • • • • • • • • • • • • •	4
	Plane	· · · · · · · · · · · · · · · · · · ·		5
	Other	(specify)		6
		,		-
2.16 <u>CBI</u>	or pr	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for und use listed (i-iv).	used by your cususe under each cat	tomers egory
	Categ	gory of End Use		
	i.	Industrial Products		
		Chemical or mixture		_ kg/yr
		Article	57.8	_ kg/yr
	ii.	Commercial Products		
		Chemical or mixture		kg/yr
		Article	6,5	kg/yr
	iii.	Consumer Products		
		Chemical or mixture		kg/yr
		Article		kg/yr
	iv.	Other		
		Distribution (excluding export)	·	kg/yr
		Export		kg/yr
		Quantity of substance consumed as reactant		kg/yı
		Unknown customer uses		
		/		<u></u>
 .		(X) this box if you attach a continuation sheet.		

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

	00 000 000 1	•
Source of Supply	Quantity (kg)	Average Price (\$/kg)
The listed substance was manufactured on-site.		
The listed substance was transferred from a different company site.		•
The listed substance was purchased directly from a manufacturer or importer.		
The listed substance was purchased from a distributor or repackager.		
The listed substance was purchased from a mixture producer.	64.3	1.78 jours
Truck Railcar Barge, Vessel Pipeline		
	The average price is the market value of the product substance. Source of Supply The listed substance was manufactured on-site. The listed substance was transferred from a different company site. The listed substance was purchased directly from a manufacturer or importer. The listed substance was purchased from a distributor or repackager. The listed substance was purchased from a mixture producer. Circle all applicable modes of transportation used to your facility. Truck Railcar Barge, Vessel Pipeline	Source of Supply The listed substance was manufactured on-site. The listed substance was transferred from a different company site. The listed substance was purchased directly from a manufacturer or importer. The listed substance was purchased from a distributor or repackager. The listed substance was purchased from a mixture producer. Circle all applicable modes of transportation used to deliver the lie

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders
		Tank rail cars 4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums
		Pineline
		Pipeline9
;	b.	Other (specify)
		Tank cylinders mmHg
		Tank rail cars mmHg
		Tank trucks mmHg

[] Mark (X) this box if you attach a continuation sheet.

<pre>3I average percent comp amount of mixture pr]</pre>	name of its supplier(sposition by weight of spocessed during the rep	the listed subst porting year.	ance in the m	ixture, and th
Trade Name	Supplier or Manufacturer	Aver % Compo by We (specify <u>+</u> %	sition ight	Amount Processed (kg/yr)
Wingfil Part A.	ARNCO	4.0 ± 0.5		1604
-				
				•
				. '
•				
		•	•	
			•	

[] Mark (Σ) this box if you attach a continuation sheet.

	listed substance used as a mof a class I chemical, class by weight, of the listed subs	
	Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub stance in Raw Materia (specify ± % precision)</pre>
Class I chemical	Co4.3	4.0 ± 0.5
Class II chemical		•
·		
Polymer		
•		.
:		

SECTION 4	PHYSTCAL	/CHEMTCAL	PROPERTIES
-----------	----------	-----------	------------

~	٦.	-	
Genera		Instruct	11000:

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

PART	A PHYSICAL/CHEMICAL DAT	ra summary	*	<i>:</i>
4.01 CBI	substance as it is manu substance in the final	itactured, imported, o product form for manu	or ¹ technical grade(s) or processed. Measure the facturing activities, at gin to process the subst	e purity of the
		Manufacture	Import	Process
	Technical grade #1	% purity	% purity NA-r	nixture % purit
	Technical grade #2	% purity	% purity	% purit
	Technical grade #3	% purity	% purity	% purit
	¹ Major = Greatest quan	tity of listed substan	ce manufactured, importe	d or processed.
02	Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate when	tity of listed substan tly updated Material S ry formulation contain pped and an MSDS devel		d or processed. for the listed . If you posses
.02	Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate where appropriate response.	tity of listed substantly updated Material S ry formulation containt oped and an MSDS devel ther at least one MSDS	ce manufactured, importe afety Data Sheet (MSDS) ing the listed substance oped by a different sour has been submitted by c	d or processed. for the listed . If you posses ce, submit your ircling the
.02	Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate wher appropriate response. Yes	tity of listed substan tly updated Material S ry formulation contain oped and an MSDS devel ther at least one MSDS	ce manufactured, importe afety Data Sheet (MSDS) ing the listed substance oped by a different sour has been submitted by c	d or processed. for the listed . If you posses ce, submit your ircling the .
.02	Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate wher appropriate response. Yes	tity of listed substantly updated Material S ry formulation contain oped and an MSDS devel ther at least one MSDS	ce manufactured, importe afety Data Sheet (MSDS) ing the listed substance oped by a different sour has been submitted by c	d or processed. for the listed . If you posses ce, submit your ircling the
02	Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate where appropriate response. Yes	tity of listed substantly updated Material Stry formulation contain oped and an MSDS developed at least one MSDS	ce manufactured, importe afety Data Sheet (MSDS) ing the listed substance oped by a different sour has been submitted by c	d or processed. for the listed . If you posses ce, submit your ircling the
4.02	Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate wher appropriate response. Yes	tity of listed substantly updated Material Stry formulation contain oped and an MSDS developed at least one MSDS	ce manufactured, importe afety Data Sheet (MSDS) ing the listed substance oped by a different sour has been submitted by c	d or processed. for the listed . If you posses ce, submit your ircling the



MATERIAL SAFETY DATA SHEET

REVISION DATE June 4 . 1986

GENERAL INFORMATION

PRODUCT NAME : WING-FIL COMPONENT "A"

CHEHICAL NAME : TDI Prepolymer plus Petroleum Hydrocarbon CHEHICAL FAHILY

: Isocyanate Prepolymer and Petroleum Hydrocarbon FORHULA

: Proprietary DOT HAZARD CLASS : UN2078 (TDI)

HANUFACTURER " : ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEHTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

II. INGREDIENTS

Components	TLV	Flash Point or	Boiling Point of	Vapor Press. mm Hg	Vapor Dens. (Air=1)	Flammable Limit LEL UEL
TDI Prepolymer	0.02ppm 0.2mg/m3	Not Estab.	Not Estab.	0.02 @77°F.	6.0	Not Estab.
Petroleum Hydrocarbon	0.2mg/m ³ TWA-ACGIH	>300	>550	<1.0 ∉68°F.	<0.1	No Data Available

III. PHYSICAL DATA

BOILING POINT (°F) : 464 VAPOR PRESSURE (mm Hg)

: SEE SECTION II VAPOR DENSITY (Air=1) : SEE SECTION II

SOLUBILITY IN WATER, \$: Insoluble. Reacts with water to liberate

CO₂ gas.

APPEARANCE & ODOR : Dark brown liquid. Sharp pungent odor. SPECIFIC GRAVITY (H20=1)

: 1.01 * VOLATILE BY VOLUME

: Negligible

EVAPORATION RATE (Ether=1): Not Established

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F)

: 320

FLAHHABLE LIMITS

.: Not Established

EXTINGUISHING HEDIA

: Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of ignition.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are genererated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

V. HEALTH HAZARD DATA

THRESHOLD LIHIT VALUE: 0.02 ppm; 0.2 mg/m3

SYMPTOMS OF EXPOSURE:

INHALATION: Hay cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a cancer hazard in Sinusitis, brochitis, asthma, and impaired ventilatory capacity can occur in some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

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Page 2 of 4

V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bronchial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

EHERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical attention.

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening

VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Materials to avoid are water. alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYMERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials to avoid).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydrogen cyanide (HCN).

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Page 3 of 4

nance al confundit "A"

VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources of ignition. Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and place in open container and remove to well ventilated area to be treated with a decontamination solution made up of 20% Tergitol THN-10 (Union Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93% water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC: (800)

WASTE DISPOSAL METHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It sources Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. Contact lenses should not be worn in or near work area.

RESPIRATORY PROTECTION: MSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust. to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store near open flame or high heat.

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this MSDS must be observed. For proper container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal, State and local environmental control regulations.

THE INFORMATION IN THIS MSDS IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF ARNCO. THE DATA ON THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. ARNCO ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.

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4.03	Submit a copy or reasonabl that is provided to your of formulation containing the been submitted by circling	ustomers/users reg listed substance.	garding the Indicate	listed subs	tance or anv	•
	Yes	••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	1
	No	•••••	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	(2
4.04 CBI	For each activity that use corresponding to each phys listed. Physical states f the time you import or beg manufacturing, storage, difinal state of the product	or importing and print to process the sposal and transporting to the sposal and the sp	listed subs processing a listed subs	stance during activities a stance. Phy	g the activi re determine sical states	ty d at for
		•	Phy:	sical State		- '
	Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
	Manufacture	1	2	3	4	5
	Import	1	2	3	4	5
	Process	1	2	(3)	4	5
	Store	1	2	3	4	5
	Dispose	1	2	3	4	5
	Transport	(1)	2	3	4	5
				•		

4.05° CBI	percentage particles importing listed su	Size If the list gractivities, indicarding activities, indicarding edistribution of the bound	te for each ap he listed subs meter. Measur ivities at the he physical st	tance by tance by time the phase and	e physical vactivity nysical st ou import	state Do nate and or begings	the size ot includ particle n to proc	and the e sizes for ess the
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<1 micron			NA			***
		1 to <5 microns			NA			
		5 to <10 microns			NA	·		
	Povder	<1 micron			37 4			•
	104461	1 to <5 microns			NA NA			
		5 to <10 microns			NA NA			
	Fiber	<pre><1 micron 1 to <5 microns 5 to <10 microns</pre>			NA NA NA			
	Aerosol	<1 micron			NA			
		1 to <5 microns			NA			7. 7
	·	5 to <10 microns		-	NA			
			÷1					

 $[\]$ Mark (X) this box if you attach a continuation sheet.

SECTION 3 ENVIRONMENTAL PATE	SECTION	5	ENVIRONMENTAL	PATE
------------------------------	---------	---	---------------	------

1 I	ndicate the rate constants for the following transfo	rmation processes.	
a	. Photolysis:		
	Absorption spectrum coefficient (peak)	(1/M cm) at	nn
	Reaction quantum yield, 6		
	Direct photolysis rate constant, k _p , at		
ь		•	
	For ¹ 0 ₂ (singlet oxygen), k _{ox}		1/
	For RO ₂ (peroxy radical), k _{ox}		1/
c	. Five-day biochemical oxygen demand, BOD ₅		mg
d.			
	For bacterial transformation in water, k		1/
	Specify culture		
e.			
	For base-promoted process, k _B		1/
	For acid-promoted process, k,		
	For neutral process, k _N		
f.			
g.	Other (such as spontaneous degradation)		

[_] Mark (X) this box if you attach a continuation sheet.

PART		PARTITION COEFFICIE							
5.02	а.	Specify the half-	life of the	f the listed substance in the following media.					
		Media		(NA-Mixture				
					Half-life (specity u	nits)		
		Groundwater							
		Atmosphere						-	
		Surface water				4			
		Soil						7-744	
	b.	Identify the liste life greater than	ed substanc 24 hours.	e's known t	ransformation pro	oducts tha	it have	a half-	
		CAC N			Half-life			= '	
		CAS No.		<u>Name</u>	(specify un	its)	<u>He</u>	<u>dia</u>	
						in		-	
						in			
						in			
							•		
5.03	Spec	cify the octanol-wa	ter partit	ion coeffic	NA-Mixture			- 4 25 86	
	Meti	hod of calculation	or determin					_ at 25°C	
		hod of calculation	or defermin	nation	• • • • • • • • • • • • • • • • • • • •	<u> </u>		_	
					NA-Mixture				
5.04	Spec	cify the soil-water	partition	coefficien	t, K _d			_ at 25°0	
	Soi	l type	• • • • • • • • • • •	• • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·			_	
								_	
5.05	Spec	cify the organic ca	rbon-vater	partition	NA-Mixture		· · · · · · · · · · · · · · · · · · ·		
	coef	fficient, K _{oc}	••••••	•	· · · · · · · · · · · · · · · · · · ·		·	_ at 25°C	
								· 	
5.06	Spec	cify the Henry's La	v Constant,	, н	NA-Mixture		at	m-m³/molo	
[_]		(X) this box if ye				·			

Bioconcentration Factor		Species NA-Mix	cture		Test ¹	
		· · · · · · · · · · · · · · · · · · ·		 		
						
 ¹ Use the following codes	to designate	the type o	 f test:	· · · · · · · · · · · · · · · · · · ·		
F = Flowthrough S = Static				:		
		÷				
				*		
	·					

6.04 <u>CBI</u>	For each market listed below, state the the listed substance sold or transferr	ne quantity sold and the treed in bulk during the rep	otal sales value of orting year.
[_]	Market	Quantity Sold or	Total Sales
\	Retail sales	Transferred (kg/yr)	Walue (\$/yr)
			
	Distribution Wholesalers		
	Distribution -\ Retailers		
	Intra-company transfer		
\	Repackagers \		
	hixture producers \	\ <u></u>	
	Article producers	<u> </u>	
	Other chemical manufacturers or processors		
	Exporters		
\	Other (specify)		
6.05	Substitutes List all known commerci	ally feasible substitutes	that you know exist
	feasible substitute is one which is ed	cost of each substitute.	A commercially
<u>CBI</u>	in your current operation, and which reperformance in its end uses.	esults in a final product	with comparable
(_)	Substitute	•	
	No substitutes currently known		Cost (\$/kg)
	No substitutes currently known		
 ,	Manufacture of the second of t		
[_]	Mark (X) this box if you attach a cont	inuation sheet.	

SECTION 7 HANUFACTURING AND PROCESSING INFORMATION

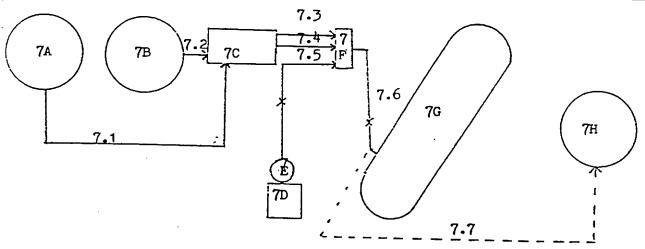
General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

[Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

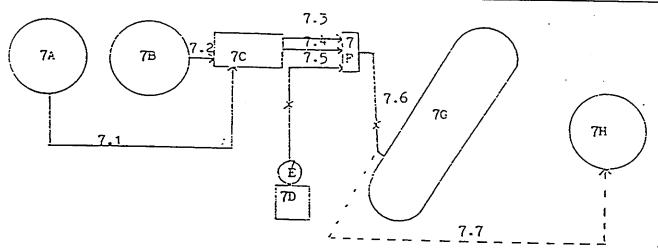
7H = Clean-out Solution Drum

 $[\]begin{bmatrix} \ \ \end{bmatrix}$ Hark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions type, provide a process block flow diagram from more than one process block.

CBI

Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

^[] Mark (X) this box if you attach a continuation sheet.

Process typ	pe Batch-	- Polyurethane Polyme:	rization	
Unit			Operating	
Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Pressure Range (mm Hg)	Vessel Composit
7A	Drum	Ambient	Atmospheric	Steel
7 B	Drum	Ambient	Atmospheric	Steel
7C	Metering Pump	Ambient	Atmospheric	Stainle:
7 D	5 Gallon Can	Ambient	Atmospheric	Steel
7E	Pump	Ambient	Atmospheric	Steel
<u>7F</u>	Mixing Head	Ambient	Atmospheric	Stainle Steel
_7G	Tire	Ambient	Atmospheric	Vul. Ru
_7H	Drum	Ambient	Atmospheric	Steel
			-	
		*	•	

7.05	DIOCESS DIOCK III	Jw ule	stream identified in you agram is provided for mor it separately for each p	o than and museago tura	agram(s). If a e, photocopy this
CBI					
[_]	Process type		Batch - Polyurethane	Polymerization	
	Process Stream ID . Code		Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
	7.1	TDI	Prepolymer	OL .	1604
	7.3	TDI	Prepolymer	OL	1604
	7.6	Poly	merizing Polyurethane	OL	3208.
					- *
					•
					-
	•				
	GC = Gas (conden GU = Gas (uncond SO = Solid SY = Sludge or s AL = Aqueous liq OL = Organic liq	sible ensib lurry uid uid	es to designate the phys at ambient temperature le at ambient temperature d (specify phases, e.g.,	and pressure) e and pressure)	
	,				
[_]	Mark (X) this box	if y	ou attach a continuation	sheet.	

'	Process typ	be Batch - Po	olyurethane Poly	merization	
	a.	b.	c.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7.1	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55 ⁺ 5.0 (E) (W) _	NA	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) -	NA	· NA
	7.3	TDI Prepolymer	40 + 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55 = 5.0	NA	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W)	. NA	NA ,
	7.6	Polyurethane	(是)-(量)	NA	NA
		Toluene Diisocyanate	(E) (W)	NA	NA
		Amine	<u>(e) (w) </u>	NA .	NA
 . 06	continued b	elow			

7.06 (continued

NA

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration (% or ppm)
1		
2		
		- National Control of the Control of
3		
,		
4		
•		
5		
2		
Use the following codes	to designate how the concentrat	ion was determined:
A = Analytical result E = Engineering judgeme	ent/calculation	
³ Use the following codes	to designate how the concentrat	ion was measured:
V = Volume V = Veight		
		•

.01 <u>BI</u>	In accordance with twhich describes the	treatment proce	s, provide a resi ess used for resi	dual treatment block duals identified in	flow diagram question 7.01
1	Process type	Bat	tch - Polyurethan	e Polymerization	
		(NA)			
					•
	*				
			÷		
			e e		
		•			
	÷	,			

8.05 <u>CBI</u>	diagram process	ı(s). If a r type, photo	esidual trea copy this qu	tment block fi estion and co	in your residua low diagram is mplete it sepa r explanation a	provided for rately for each	more than one ch process
[_]	Process	type	Ba	tch - Polyure	thane Polymeri	zation	
	a.	b.	NA	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Vaste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concentrations (% or ppm)
							•
	•						
	***************************************					. ,	
 8.05	 continu	ed below					

8.VD (continued	8.	05	(continued)
-----------------	----	----	------------	---



¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

8.05	(contin	ued)
------	---------	------

NA

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
	1		
			:
			•
	2		_'
	3		
	·		
	4		
	•		
		· · · · · · · · · · · · · · · · · · ·	
	5		
			·
		<u></u>	
		des to designate how the concentrati	on was determined:
	<pre>A = Analytical resul E = Engineering judg</pre>		•
.05	continued belov		
1	Mark (X) this box if	you attach a continuation sheet.	
		56	

0	ΛE	1	
o.	05	(conti	iuea i

NA

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit (<u>t</u> ug/l)
1		
		· ·
3		
4		
5		
6		

8.06	Of Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than o process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)						
CBI							
[_]	Process	type	Ba	tch - Polyur	ethane Polymerizati	on	
	a.	b.	c. NA	d.	e.	f. Costs for	g.
	Stream ID Code	Waste Description Code ¹	Management Method Code ²	Residual Quantities (kg/yr)	Management of Residual (%) On-Site Off-Site	Off-Site Management (per kg)	Changes in Management Methods
		-		-		•	
	·						_ ,

				•			
					P-94-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-		
	· · · · · · · · · · · · · · · · · · ·						
~~~~					designate the waste		
[_]	Mark ()	() this box	if you attac	h a continua	tion sheet.		

8.22 CBI	(by capacity) i	nbustion chamber nainerators that oct or residual	t are wsed on	-site to burk	the resid	three law	gest tified in
( <u></u>	your process of	Combustion Chamber Temperature	1	Location of Temperature Monitor	f \		nce Time bustion (seconds)
	Incinerator	Primary Seco	ondary Pri	mary Secon	ndary Pr	cimary	Secondary
	2			$\overline{}$			·
			<del>\</del> -	_ \		$\overline{}$	
	by circli Yes	if Office of So og the appropri	lid Waste sur ate response.	vey has been	submitted	in lieb	of response
	No	\		•••••		· · · · · · · · · · · · · · · · · · ·	2
		\					
8.23 <u>CBI</u> [_]	are used on-sit treatment block	llowing table for e to burn the restriction flow diagram(s	esiduals ider ). Air Polluti	tified in you	ur process	Types Emission	residual of s Data
	Incinerator  1		Control Devi	ce*_		Avail	able
	2	•	,				
	3						
	Indicate by circli	if Office of So	lid Waste sur ate response	vey has been	submitted	in lieu	of response
	Yes		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••	1
		• • • • • • • • • • • • • • • • • • • •					
		ving codes to de					
	E = Electrosta	include type of tic precipitato ecify)	r				
[_]	Mark (X) this b	oox if you attac	h a continua	tion sheet.			

PART	A EMPLOYMENT AND POTENTIAL EX	POSURE PRO	FILE		
9.01 <u>CBI</u>	Mark (X) the appropriate column the following data elements for element the year in which you records for that data element explanation and an example.)	or hourly a began main	and salaried ntaining rec	l workers. Specify ords and the numbe	for each data
·—·	<u>D.</u>			: Year in Which	Number of
	Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Records Are Maintained
	Date of hire	-			
	Age at hire			-	
	Work history of individual before employment at your facility			•	• - ′
	Sex				
	Race				
	Job titles				
	Start date for each job title				
	End date for each job title				•
	Work area industrial hygiene monitoring data				
	Personal employee monitoring data		:		
	Employee medical history				
	Employee smoking history	-			
	Accident history				
	Retirement date				
	Termination date	-	-		
	Vital status of retirees				
	Cause of death data				

NOTE No Records make interest

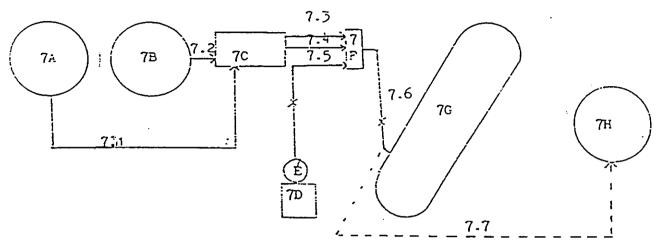
9.02 CBI	In accordance with the in which you engage.	e instructions, complete	the following ta	ble for ea	ach activity
	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Vorkers	Total Worker-Hours
	Manufacture of the	Enclosed			
	listed substance	Controlled Release			
		0pen		:	
	On-site use as reactant	Enclosed	64.3	1	56
	reactant	Controlled Release			•
		0pen	<del>(moles a constant of the cons</del>	<u></u>	- '
	On-site use as nonreactant	Enclosed	-		
		Controlled Release			
		0pen	4		
	On-site preparation of products	Enclosed			
	or products	Controlled Release			
	•	0pen			
		·			
		·			•

9.03	Provide a descriptive cencompasses workers who listed substance.	job title for each labor category at your facility that may potentially come in contact with or be exposed to the
CBI	113teu suostance.	
[_]		
<u>]</u>	Labor Category	Descriptive Job Title
	A	SERIL MARINETH
	В	- Granting There spreadol
	С	
	D	·
	E	•
	F	
	G	
	Н	
	I	
	J ·	
		••
<u></u>	Mark (X) this box if yo	au attach a continuation sheet

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

Note: All above is considered one work area

.05 BI	additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or s question and complete it separately for each process type.
_1	Process type	Batch - Polyurethane Polymerization
	Work Area ID .	Description of Work Areas and Worker Activities
	1	Pumping TDI/Amine solutions to mixer, filling tires through valve stem with polyurethane, and cleaning hosing with alcohol
	2	
	3	
	4	
	5	•
	· 6	
	7	
	8	·
	9	
	10	
		•

Proc	ess type		Batch - Poly	urethane I	Polymeriza	tion	
Work	area	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • •		
	abor egory	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	re S ect	hysical tate of Listed bstance ¹	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
_/	<u> </u>		Diegoi sti	1. ( ) 1. ( )	04	. (	/
12	? 	1	DIRECTION				23
			-			480-0-0	
	<del></del> .			<u> </u>			
						***************************************	
							-
	<del></del> ,					-	
	<del></del>			<del></del>	-		
GC : GU : S0 : Use A = B =	Foint of  Gas (contemper Gas (under the fold)  The fold  The fold	exposure: ondensible a ature and pr ncondensible ature and pr es fumes, va  oving codes es or less than 15 minu	essure) at ambient essure; pors, etc.) to designate av	SY = Sl AL = Ac OL = Or IL = In (s 90 erage leng D = Gre exc E = Gre exc	udge or save under the course of the course	lurry uid uid liquid ases, e.g., 10% toluene) osure per day: 2 hours, but hours 4 hours, but	not

.07	Weighted Average (	egory represented in question 9.06, TWA) exposure levels and the 15-min stion and complete it separately fo	ute peak exposure levels.
BI			
	Process type	Batch - Polyurethane Polymer	ization
	Work area		1
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	<b>*</b> *	*	*
			,
	*****		
	·		
			•
*			
No	tests have been con	nducted	
			·
		•	

I							
- - _]	No mon	itor <b>wo</b> rk	er exposure	available			
- *	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Record Maintained
	Personal breathing zone						
	General work area (air)						
	Wipe samples	-	-	•			
	Adhesive patches						
	Blood samples				-		
	Urine samples			•			
	Respiratory samples						
	Allergy tests						
	Other (specify)						
	Other (specify)				-		
	Other (specify)						
	Use the following of A = Plant industria B = Insurance carr C = OSHA consultan D = Other (specify	al hygien ier t	ist -	no takes the	e monitori	ng samples:	•

_]	Sample Type		20	mpling and Analyt	ical methodolo	<u>gy</u>
		NA				
		<u> </u>				
		<del>- ·</del>				
					:	
				***		
10	If you conduct person specify the following	nal and/o	or ambient ation for e	air monitoring fo ach equipment typ	r the listed s e used.	ubstance,
Ţ		Do not	conduct			
_]	Equipment Type ¹	Detecti	ion Limit ²	Manufacturer	Averaging <u>Time (hr)</u>	Model Numbe
	•					
	¹ Use the following co			personal air monit		t types:
	A = Passive dosimete				oring equipmen	c types.
	<pre>B = Detector tube C = Charcoal filtrat</pre>	ion tube	vith pump	•		
	D = Other (specify)			·		<del></del>
	Use the following co				ring equipment	types:
	<pre>E = Stationary monit F = Stationary monit</pre>	ors loca	ited within	facility	-	
	G = Stationary monit H = Mobile monitorin	ors loca	ited at pla	nt boundary		
•	I = Other (specify)					
	² Use the following co	des to d	lesignate d	etection limit un	its:	
	<pre>A = ppm B = Fibers/cubic cen C = Micrograms/cubic</pre>	timeter meter (	(f/cc) (µ/m³)			

<u>I</u>	•			tests co	onducted	(a ala] a	Freque	ncy	ata \
_]		Test Desc	ription			(veek1	, monthly,	yearly,	etc.)
									<u> </u>
					<del></del>				
					<del></del>				
					-			•	
									•
									- 1
	•								
					.*				
							٠		
								•	
		•							
				-					
									ř

9.13 CBI	Describe all equipment or process modifications you have me prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modified the percentage reduction in exposure that resulted. Photo complete it separately for each process type and work area.	ion of worker exposure to ication described, state copy this question and
[_]	Process type Batch - Polyurethane Polymerizat:	ion
	Work area	1
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
		<del></del>
	,	
		•
		-
	•	
	No Modifications	
	,	
		•

9.14	Describe the person	al protective and safety equ	inment that your	vorkers voor e-	
		n order to reduce or elimina py this question and complet			
CBI	and work area.	to the description and complete	e it separately	tor each process	type
	Process type	Batch - Polyurethane	Polymerization		
				1	
		Equipment Types	Wear or Use	•	
		Equipment Types	<u>(Y/N)</u>		•
		Respirators	<u> </u>		
		Safety goggles/glasses	<u></u>		
		Face shields	- 1/1		
		Coveralls	<u>Y</u>		
		Bib aprons	1/		
		Chemical-resistant gloves	<u> </u>		
	·	Other (specify)			
		SALLIY CAGE			

[_]	Process type	Batc	ch - Polyuretha	ne Polymer	ization	
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test	Frequency of Fit Tests (per year)
						•
	¹ Use the fol	llowing codes to design	gnate average (	ısage:		
	A = Daily B = Weekly C = Monthly D = Once a E = Other	year				
	² Use the fol	llowing codes to desi	gnate the type	of fit tes	st:	
	QL = Qualit		*			
	QT = Quanti					
		,				

.19 BI	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.  Process type Batch - Polyurethane Polymerization							
	Work area	••••••	• • • • • • • • • • • • • • • • • • • •	1				
	Area is not restr	icted		: 				
					-			
20	Indicate (X) how often you leaks or spills of the lis separately for each proces	ted substance. s type and work	Photocopy thi area.	s question an	ean up routine d complete it			
20	leaks or spills of the lis separately for each proces  Process type  Work area	ted substance. s type and work  Batch - Polyuret  Less Than	Photocopy thi area.  hane Polymeri:  1-2 Times	s question anzation  1  3-4 Times	d complete it  More Than 4			
20	Process type  Work area  Housekeeping Tasks	ted substance. s type and work  Batch - Polyuret	Photocopy thi area.  hane Polymeri	s question anzation	ean up routine d complete it More Than 4 Times Per Day			
20	leaks or spills of the lis separately for each proces  Process type  Work area	ted substance. s type and work  Batch - Polyuret  Less Than	Photocopy thi area.  hane Polymeri:  1-2 Times	s question anzation  1  3-4 Times	d complete it  More Than 4			
20	leaks or spills of the lis separately for each process Process type  Work area	ted substance. s type and work  Batch - Polyuret  Less Than	Photocopy thi area.  hane Polymeri:  1-2 Times	s question anzation  1  3-4 Times	d complete it  More Than 4			
	leaks or spills of the lis separately for each proces  Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors  Other (specify)	ted substance. s type and work  Batch - Polyuret  Less Than Once Per Day	Photocopy thi area.  hane Polymeri:  1-2 Times	s question anzation  1  3-4 Times	d complete it  More Than 4			
	leaks or spills of the lis separately for each proces  Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors	ted substance. s type and work  Batch - Polyuret  Less Than Once Per Day	Photocopy thi area.  hane Polymeri:  1-2 Times	s question anzation  1  3-4 Times	d complete it  More Than 4			
	leaks or spills of the lis separately for each proces  Process type  Work area  Housekeeping Tasks  Sweeping  Vacuuming  Vacuuming  Vater flushing of floors  Other (specify)	ted substance. s type and work  Batch - Polyuret  Less Than Once Per Day	Photocopy thi area.  hane Polymeri:  1-2 Times	s question anzation  1  3-4 Times	d complete it  More Than 4			

9\21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance.	\
\	Routine exposure	
`	Yes	
	No	
	Emergency exposure	
	Yes \	
	No	
	If yes, where are copies of the plan maintained?	
\	Routine exposure:	
	Emergency exposure:	•
7		1
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.	
	Yes 1	
	No 2	
	If yes, where are copies of the plan maintained?	
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.	
	Yes	
	No 2	,
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.	\
	Plant safety specialist	L
	Insurance carrier	2
	OSHA consultant	3
\	Other (spedify)	4
\		_
[_]	Mark (X) this box if you attach a continuation sheet.	

## SECTION 10 ENVIRONMENTAL RELEASE

## General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area
	Residential area
	Agricultural area
	Rural area
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway
	Other (specify)1

	Latitude	······ _	29 · J	2.0
	Longitude	·····	98 . 2	<u>2.30</u>
	UTM coordinates Zon	ne, Northi	ng, Ea	asting
10.03	If you monitor meteorological co	onditions in the vicin	ty of your faci	lity, provi
	Average annual precipitation			inches/
	Predominant wind direction			•
10.04	Indicate the depth to groundwate	er helov your fability		$\overline{}$
	`	<b>\</b>		
	Depth to groundwater			meders
.0.05	For each on-site activity listed	, indicate (Y/N/NA) al	l routine relea	ases of the
CBI	For each on-site activity listed listed substance to the environm Y, N, and NA.)	l, indicate (Y/N/NA) alment. (Refer to the in	l routine releases	ases of the a definitio
0.05 BI	Traced agostance to the environm	ent. (Refer to the in	l routine releastructions for tronmental Releases	a definitio
CBI	Y, N, and NA.)	ent. (Refer to the in Envi	structions for cronmental Relea	a definitio
CBI	Y, N, and NA.)  On-Site Activity	Envi	ronmental Relea	a definitio ase Land
BI	Y, N, and NA.)  On-Site Activity  Manufacturing	Envi	ronmental Relea	a definitio  ase  Land  NA
BI	Y, N, and NA.)  On-Site Activity  Manufacturing  Importing	Envi	ronmental Relea Vater NA	a definitio  ase  Land  NA  NA
BI	Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing	Envi	ronmental Relea Vater NA NA	a definitio  ase  Land  NA  NA  N
CBI	Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used	Envi	ronmental Relea Vater  NA  NA  NA  NA  NA	a definition  ase  Land  NA  NA  NA  NA

.06	Provide the following information for the listed so of precision for each item. (Refer to the instruction example.)	tions for furt	her explanation and
<u> </u>	•		
_}	Quantity discharged to the air	NA	kg/yr <u>+</u>
	Quantity discharged in wastewaters	NA	kg/yr <u>+</u>
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>
			•
		•	
			•

CBI	process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.  Batch - Polyurethane Polymerization							
_]	Process type  NA - Essential a closed system							
	Stream ID Code	Control Technology	Percent Efficienc					
			· · · · · · · · · · · · · · · · · · ·					
			······································					
			<del></del>					
•								
	•							
			-					
	•							

substance in terms of a residual treatment block source. Do not include	substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emission sources (e.g., equipment leaks). Photocopy this question and complete it separately for each process type.						
Point Source							
ID Code	Description of Emission Point Source						
	NA						
•							
<del></del>							
<del></del>							
	·						

Mark (X)

	•	ng the followi	<b>G</b>				Marcim m	V
Point Source ID Code	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/event
	***************************************		<del></del>		******************			
				<del></del>				
							·	
	•							
	-	***************************************			-			
				p <del>1777</del>	***************************************	**************************************		
			,					***************************************
	Source ID	Source ID Physical	Source Average ID Physical Emissions	Source Average ID Physical Emissions Frequency ²	Source Average ID Physical Emissions Frequency Duration	Source Average Average D Physical Emissions Frequency Duration Emission	Source Average Emission  ID Physical Emissions Frequency Duration Emission Rate	Source Average Average Emission Rate  ID Physical Emissions Frequency Duration Emission Rate Frequency

²Frequency of emission at any level of emission

Duration of emission at any level of emission

 $^{^4}$ Average Emission Factor — Provide estimated ( $\pm$  25 percent) emission factor (kg of emission per kg of production of listed substance)

			Stack	NA					
	Point Source ID Code	Stack	Inner Diameter (at outlet)	Exhaust Temperature		Building <u>Height(m)</u>	Building	Vei	
	Code	<pre>Height(m)</pre>	<u>(m)</u>	(°C)	(m/sec)	neight(m)	width(m)	Ту	
				•			•	<del></del>	
			***				-		
<u>.</u>									
	1Height o	of attached	or adjacent	building					
	² Width of attached or adjacent building								
			codes to des	ignate vent	type:				
	H = Hori V = Ver								

0.12 <u>BI</u>	distribution for each Point Source	in particulate form, indicate the particle size ID Code identified in question 10.09. e it separately for each emission point source.						
1	Point source ID code							
	Size Range (microns)	Mass Fraction (% $\pm$ % precision)						
	< 1							
	≥ 1 to < 10	· · · · · · · · · · · · · · · · · · ·						
	≥ 10 to < 30	·						
	≥ 30 to < 50							
	≥ 50 to < 100							
	≥ 100 to < 500							
	≥ 500							
	•	Total = 100%						
		·						
	a.e.							

Equipment Leaks Complete the following table by providing the number types listed which are exposed to the listed substance and which are in according to the specified weight percent of the listed substance passis the component. Do this for each process type identified in your process residual treatment block flow diagram(s). Do not include equipment type not exposed to the listed substance. If this is a batch or intermittent process, give an overall percentage of time per year that the process texposed to the listed substance. Photocopy this question and complete for each process type.							
[_]	Process type Ba	tch - Polvure	thane Po	l vmeri zati	ion		
	Percentage of time per yea type	r that the li	sted sub	stance is		to this p	rocess
			of Compos of Liste	nents in : d Substan	Service by ce in Pro	y Weight I	Percent.
	Equipment Type Pump seals ¹	Less than 5%	5-10%	11-25%	***	76-99%	Greater than 99%
	Packed  Mechanical  Double mechanical  Compressor seals		X				
	Flanges						-
	Valves Gas ³ Liquid						
	Pressure relief devices (Gas or vapor only)		:				
	Sample connections Gas						
	Liquid Open-ended lines ⁵ (e.g., purge, vent)				· · · · · · · · · · · · · · · · · · ·		-
	Gas Liquid						
	¹ List the number of pump ar compressors	d compressor	seals,	ather th	an the nu	mber of p	umps or
0.13	continued on next page					·	

10.13	(Continues)								
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively								
	³ Conditions existing in the valve during normal operation								
	⁴ Report all pressure relief devices in service, including those equipped with control devices								
	⁵ Lines closed during norma operations	al operation that woul	ld be used during	maintenance					
10.14 <u>CBI</u>	Pressure Relief Devices wi pressure relief devices in devices in service are con enter "None" under column	dentified in 10.13 to atrolled. If a pressu	indicate which pr	essure relief .					
	a.	b.	c.	d.					
	Number of	Percent Chemical		Estimated					
	Pressure Relief Devices	<u>in Vessel</u>	Control Device	Control Efficiency ²					
	•								
	***************************************								
		*							
				**************************************					
	Refer to the table in que heading entitled "Number Substance" (e.g., <5%, 5-	of Components in Serv	d the percent ran rice by Weight Per	ge given under the cent of Listed					
	² The EPA assigns a control with rupture discs under efficiency of 98 percent conditions	normal operating cond	litions. The EPA	assigns a control					
[_]	Mark (X) this box if you a	ittach a continuation	sheet.						

į	procedures. Photocop type.	y this question a	and complete	it separati	ery for each	hrocess
			Botoh Dolmmothers D.			
J	Process type	• • • • • • • • • • • • • • • • • • • •	Batch - Polyurethane Polymerizati			
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device			
				(per year)	<u>detection</u>	Initiated)
	Pump seals Packed	$\Lambda / H$				
	Mechanical		-			•
	Double mechanical		•			
	-		•		-	
	Compressor seals Flanges		-	-		
	Valves					-
	Gas					
	Liquid					
	Pressure relief devices (gas or vapor only)	,		The state of the s		
	Sample connections					
	Gas					
	- Liquid		· · · · · · · · · · · · · · · · · · ·			
	Open-ended lines Gas				•	
	Liquid					
	1 Use the following co POVA = Portable organists FPM = Fixed point monomore of the contract	ınic vapor analyze	er	evice:		
		·				

· · · · · ·		COOL CLC	sole floor	flow diagram	` .	Vessel	Vessel		Operating	-			
	Vessel Type i		Composition of Stored, Materials	Throughput (liters per year)		Filling	Inner		Vessel Volume	Vessel Emission Controls	Design Flow Rate		Control Efficiency (%)
					·								
					· <del></del>								
									<del></del>	***			
	1	·	·				2 _{11co}	 the fol		codes to	·	 te floatin	g roof seal
	F :	Fixed ro	internal flo	pating roof		•	MS1 MS2 MS2I	= Mech = Shoo R = Rim-	nanical -mounte -mounted	shoe, prid ed seconda: l, seconda:	mary ry ry		
	NCTF = Noncontact internal floating roof  ETR = External floating roof  P = Pressure vessel (indicate pressure rating)  H = Horizontal  U = Underground				<pre>LM1 = Liquid-mounted resilient filled seal, primary LM2 = Rim-mounted shield LMW = Weather shield VM1 = Vapor mounted resilient filled seal, primary</pre>								
	•	,						= Rim- = Weat		i secondar ield	<b>y</b> .		
ì	Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis												
	Indic	are merbit	· para										

## PART E NON-ROUTINE RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time _(am/pm)
1	6-1-80	2801	1. 1.33	2:0010
2				
3		******		
4			<u> </u>	
5				•
6				- '

10 24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
1					
3`	<u> </u>			\	
4	<u> </u>			<u>.</u>	
5			\		
6		4	<del>\</del> -		